

activated by dithiothreitol and EDTA and inhibited by p-chloromercuribenzoate and iodoacetic acid. It was also inhibited by N-tosyl-L-lysyl chloromethyl ketone, N-tosyl-L-phenylalanyl chloromethyl ketone, bovine blood serum and partially by soybean trypsin inhibitor. DFP [diisopropylfluorophosphate], trasylol and ϵ - amino-caproic acid had no effect. Beside histone, the neutral protease hydrolyzed casein and .gamma .-globulin and fibrinogen in a low extent. The enzyme had no activity toward N-benzoyl-D,L-arginine p-nitroanilide, N-benzoyl-L- arginine ethyl ester and N-acetyl-L-tyrosine ethyl ester, collagen, elastin and fibrin. Some properties of the enzyme were similar to those of neutral SH-dependent proteases described by Hayashi and Lo Spalluto et al.

=> dis his

(FILE 'HOME' ENTERED AT 15:21:01 ON 23 FEB 2006)

FILE 'REGISTRY' ENTERED AT 15:21:47 ON 23 FEB 2006

L1 STR
L2 8 S L1
L3 81 S L1 FUL

FILE 'CAPLUS' ENTERED AT 15:28:27 ON 23 FEB 2006

L4 32 S L3
L5 289 S WENDER P?/AU
L6 146 S ROTHBARD J?/AU
L7 1065 S WRIGHT L?/AU
L8 24 S KREIDER E?/AU
L9 3 S L5 AND L6 AND L7 AND L8
L10 2 S L9 NOT L4
L11 25 S (L5 OR L6 OR L7 OR L8) AND ARGININE AND TRANSPORT?
L12 18 S L11 NOT (L4 OR L9)

FILE 'REGISTRY' ENTERED AT 15:32:18 ON 23 FEB 2006

E ARGININE/CN 5
L13 2 S E3
E "I-AMINO CAPROIC ACID"/CN 5
L14 11 S GAMMA(L)AMINO(L)CAPROIC ACID

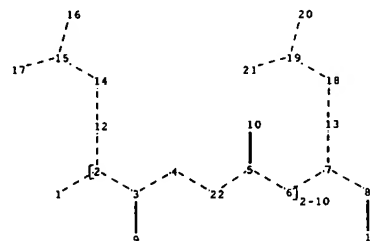
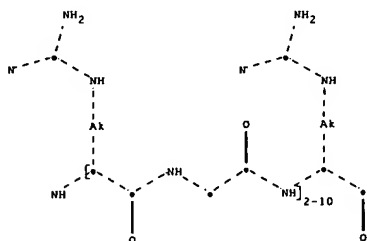
FILE 'CAPLUS' ENTERED AT 15:33:27 ON 23 FEB 2006

L15 116344 S (L13 OR ?ARGININE? OR L3/P OR L3/D)
L16 3409 S L14 OR GAMMA(L)AMINO(L)CAPROIC ACID OR ACA
L17 82 S L15 AND L16
L18 81 S L17 NOT (L9 OR L4 OR L11)
L19 3 S L18 AND TRANSPORT?

FILE 'MEDLINE, BIOSIS, EMBASE, WPIDS' ENTERED AT 15:36:03 ON 23 FEB 2006

L20 71518 FILE MEDLINE
L21 81580 FILE BIOSIS
L22 69950 FILE EMBASE
L23 8058 FILE WPIDS
TOTAL FOR ALL FILES
L24 231106 S L13 OR ?ARGININE?
L25 3095 FILE MEDLINE
L26 3238 FILE BIOSIS
L27 2760 FILE EMBASE
L28 620 FILE WPIDS
TOTAL FOR ALL FILES

L4



chain nodes :

1 2 3 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21

ring/chain nodes :

4 22

chain bonds :

1-2 2-3 2-12 3-4 3-9 5-10 5-6 5-22 6-7 7-8 7-13 8-11 12-14
13-18 14-15 15-16 15-17 18-19 19-20 19-21

ring/chain bonds :

4-22

exact/norm bonds :

1-2 2-3 2-12 3-4 3-9 4-22 5-10 5-6 5-22 6-7 7-8 7-13 8-11
12-14 13-18 14-15 15-16 15-17 18-19 19-20 19-21

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS
9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS
16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS

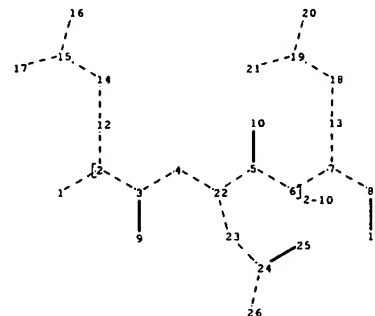
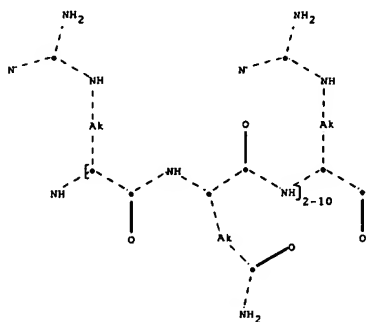
Generic attributes :

12:

Type of chain : Linear
Saturation : Saturated

13:

Type of chain : Linear
Saturation : Saturated



chain nodes :

1 2 3 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 23
24 25 26

ring/chain nodes :

4 22

chain bonds :

1-2 2-3 2-12 3-4 3-9 5-10 5-6 5-22 6-7 7-8 7-13 8-11 12-14
13-18 14-15 15-16 15-17 18-19 19-20 19-21 22-23 23-24 24-25 24-26

ring/chain bonds :

4-22

exact/norm bonds :

1-2 2-3 2-12 3-4 3-9 4-22 5-10 5-6 5-22 6-7 7-8 7-13 8-11
12-14 13-18 14-15 15-16 15-17 18-19 19-20 19-21 22-23 23-24 24-25
24-26

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS
9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS
16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS
23:CLASS 24:CLASS 25:CLASS 26:CLASS

Generic attributes :

12:

Type of chain : Linear
Saturation : Saturated

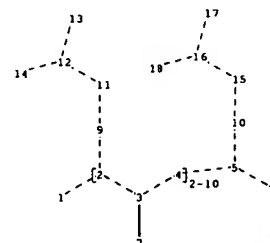
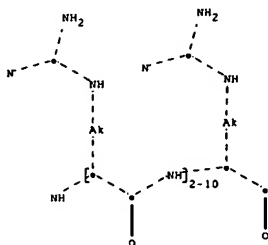
13:

Type of chain : Linear
Saturation : Saturated

23:

Type of chain : Linear
Saturation : Saturated

41



chain nodes :

1 2 3 5 6 7 8 9 10 11 12 13 14 15 16 17 18

ring/chain nodes :

4

chain bonds :

1-2 2-3 2-9 3-4 3-7 4-5 5-10 5-6 6-8 9-11 10-15 11-12 12-13
12-14 15-16 16-17 16-18

exact/norm bonds :

1-2 2-3 2-9 3-4 3-7 4-5 5-10 5-6 6-8 9-11 10-15 11-12 12-13
12-14 15-16 16-17 16-18

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS
9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS
16:CLASS 17:CLASS 18:CLASS

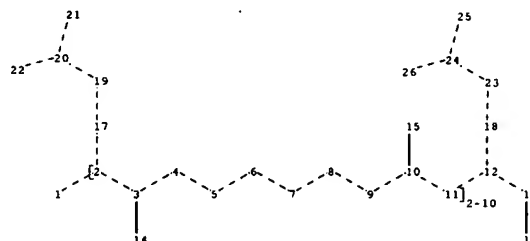
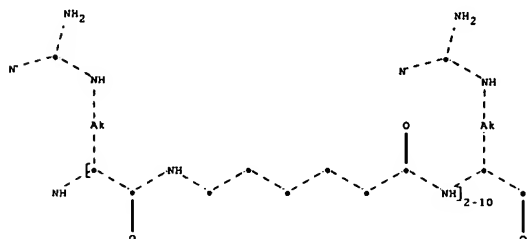
Generic attributes :

9:

Type of chain : Linear
Saturation : Saturated

10:

Type of chain : Linear
Saturation : Saturated



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
22 23 24 25 26

chain bonds :

1-2 2-3 2-17 3-4 3-14 4-5 5-6 6-7 7-8 8-9 9-10 10-11 10-15
11-12 12-13 12-18 13-16 17-19 18-23 19-20 20-21 20-22 23-24 24-25
24-26

exact/norm bonds :

1-2 2-3 2-17 3-4 3-14 4-5 5-6 6-7 7-8 8-9 9-10 10-11 10-15
11-12 12-13 12-18 13-16 17-19 18-23 19-20 20-21 20-22 23-24 24-25
24-26

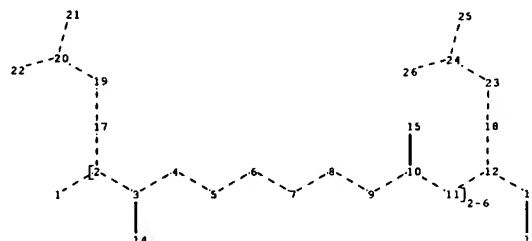
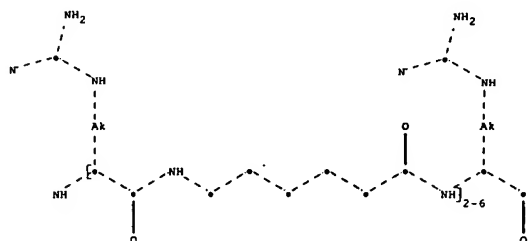
Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS
9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS
16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS
23:CLASS 24:CLASS 25:CLASS 26:CLASS

Generic attributes :

17:
Type of chain : Linear
Saturation : Saturated
18:
Type of chain : Linear
Saturation : Saturated

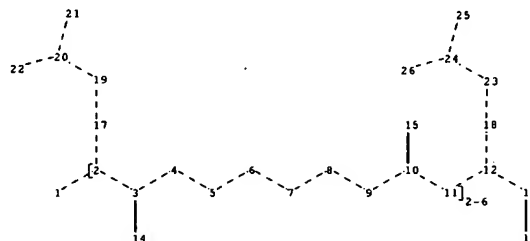
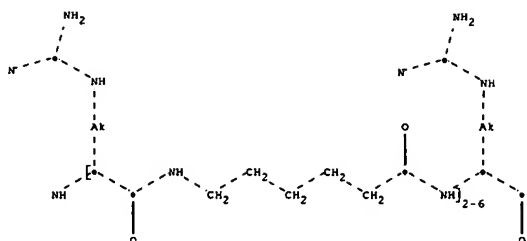
L2



chain nodes :
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
 22 23 24 25 26
 chain bonds :
 1-2 2-3 2-17 3-4 3-14 4-5 5-6 6-7 7-8 8-9 9-10 10-11 10-15
 11-12 12-13 12-18 13-16 17-19 18-23 19-20 20-21 20-22 23-24 24-25
 24-26
 exact/norm bonds :
 1-2 2-3 2-17 3-4 3-14 4-5 5-6 6-7 7-8 8-9 9-10 10-11 10-15
 11-12 12-13 12-18 13-16 17-19 18-23 19-20 20-21 20-22 23-24 24-25
 24-26

Match level :
 1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS
 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS
 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS
 23:CLASS 24:CLASS 25:CLASS 26:CLASS

Generic attributes :
 17:
 Type of chain : Linear
 Saturation : Saturated
 18:
 Type of chain : Linear
 Saturation : Saturated



chain nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
22 23 24 25 26

chain bonds :

1-2 2-3 2-17 3-4 3-14 4-5 5-6 6-7 7-8 8-9 9-10 10-11 10-15
11-12 12-13 12-18 13-16 17-19 18-23 19-20 20-21 20-22 23-24 24-25
24-26

exact/norm bonds :

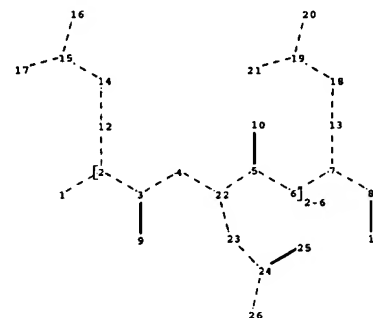
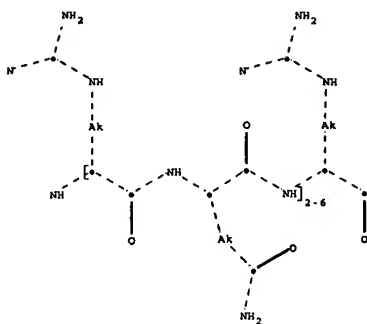
1-2 2-3 2-17 3-4 3-14 4-5 5-6 6-7 7-8 8-9 9-10 10-11 10-15
11-12 12-13 12-18 13-16 17-19 18-23 19-20 20-21 20-22 23-24 24-25
24-26

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS
9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS
16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS
23:CLASS 24:CLASS 25:CLASS 26:CLASS

Generic attributes :

17:
Type of chain : Linear
Saturation : Saturated
18:
Type of chain : Linear
Saturation : Saturated



chain nodes :

1 2 3 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 23 24 25 26

ring/chain nodes :

4 22

chain bonds :

1-2 2-3 2-12 3-4 3-9 5-10 5-6 5-22 6-7 7-8 7-13 8-11 12-14 13-18 14-15 15-16
15-17 18-19 19-20 19-21 22-23 23-24 24-25 24-26

ring/chain bonds :

4-22

exact/norm bonds :

1-2 2-3 2-12 3-4 3-9 4-22 5-10 5-6 5-22 6-7 7-8 7-13 8-11 12-14 13-18 14-15
15-16 15-17 18-19 19-20 19-21 22-23 23-24 24-25 24-26

Match level :

1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS 9:CLASS 10:CLASS
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20:CLASS 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS

Generic attributes :

12:

Type of chain : Linear
Saturation : Saturated

13:

Type of chain : Linear
Saturation : Saturated

23:

Type of chain : Linear
Saturation : Saturated